

type	tag	tag	Service	range	mfr	model	signal	Maximum pressure	Notes					
AE	36	Ar	Oxygen Analyzer	0 - 5000 ppm	Delta F	DF-310	4-20 mA	20 psig						
AE	37	Ar	Oxygen Analyzer	0 - 20 ppm	Delta F	DF-560	4-20 mA	20 psig						
AE	52	HAr	Filter regeneration moisture monitoring original	-80 to + 20 C	Vaisala	DMT242A	4-20 mA	290 psig						
AE	151	HAr	Filter regeneration moisture monitoring new	-60 to + 60 C	Vaisala	DMT242A	4-20 mA	290 psig						
HTR	8	HAr	Purifier regeneration heater	1000W / 240 VAC	Omega	???								
HTR	21	Ar	LAr transfer from detector	100 W / a20 VAC	Watlow	Firerod								
HTR	22	Ar	LAr transfer from pbar dewar	100 W / a20 VAC	Watlow	Firerod								
HTR	55	HAr	Purifier pre-heater	150 W / 120 VAC										
LT	2	N2	Pbar storage dewar condensor LN2 level	0-20.5 inches	American Magnetics	Model 286 Controller	4-20 mA							
LT	5	Ar	Pbar storage dewar Lar level	0-63 inches	American Magnetics	Model 286 Controller	4-20 mA							
LT	10	N2	MVE detector dewar condensor LN2 level	0-20.5 inches	American Magnetics	Model 286 Controller	4-20 mA							
LT	13	Ar	MVE detector dewar Lar level	0-39.62 inches	American Magnetics	Model 286 Controller	4-20 mA							
PI	4	Ar	Pbar storage dewar Ar pressure	VAC-0-30 psig	AMETEK	1535-V-0-30-PSI/KPA-CBM-FVCR-FR	---							
PI	12	Ar	MVE detector dewar Ar pressure	VAC-0-30 psig	AMETEK	1535-V-0-30-PSI/KPA-CBM-FVCR-FR	---							
PI	38	Ar	Argon purge dewar supply pressure											
PI	39	Ar	Argon purge dewar supply regulated pressure											
PI	40	Ar	Argon purge dewar supply pressure											
PI	41	Ar	Argon purge dewar supply regulated pressure											
PI	42	Ar	Argon purge dewar supply regulated pressure											
PI	43	Ar	Argon purge dewar supply line regulated pressure											
PI	44	N2	LN2 transfer line pressure											
PI	45	H2Ar	H2Ar bottle pressure											
PI	46	H2Ar	H2Ar regulated pressure											
PI	47	H2Ar	H2Ar regulated pressure											
PI	48	H2Ar	H2Ar line pressure											
PI	100	N2	LN2 dewar pressure											
DPT	100	N	Liquid Nitrogen Dewar	0 - 80" wc	Barton	IT13	4-20 mA							
DPT	67	Ar	Luke Vapor Pump	0 - 5 psid	Setra	C239	4-20 mA							
PT	1	N2	Pbar storage dewar condensor LN2 pressure	0-50 psig	Setra	C206	4-20 mA							
PT	3	Ar	Pbar storage dewar Ar pressure	0-50 psia	Setra	GCT-225 (2251-050P-A-D4-11-B1)	4-20 mA							
PT	9	N2	MVE detector dewar condensor LN2 pressure	0-50 psig	Setra	C206	4-20 mA							
PT	11	Ar	MVE detector dewar Ar pressure	0-50 psia	Setra	GCT-225 (2251-050P-A-D4-11-B1)	4-20 mA							
PT	14	V	Rough Vacuum at pump inlet	10^{-4} - 760 Torr	Varian (Controller Part# L8350301)	ConvecTorr gauge board (Part# L9887301)	0 - 7 VDC, 1 V per decade log-linear		37 pin connector, might need cable					
PT	15	V	LArc transfer line insultating vacuum	10^{-4} - 1Torr linear & 10^{-4} - 1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	16	V	MVE detector dewar insulating vacuum	10^{-4} - 1Torr linear & 10^{-4} - 1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	17	V	Pbar storage dewar insulating vacuum	10^{-4} - 1Torr linear & 10^{-4} - 1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	18	V	Pbar storage dewar Argon volume rough vacuum	10^{-4} - 760 Torr	Varian (Controller Part# L8350301)	ConvecTorr gauge board (Part# L9887301)	0 - 7 VDC, 1 V per decade log-linear		37 pin connector, might need cable					
PT	19	V	MVE detector dewar Argon volume rough vacuum	10^{-4} - 760 Torr	Varian (Controller Part# L8350301)	ConvecTorr gauge board (Part# L9887301)	0 - 7 VDC, 1 V per decade log-linear		37 pin connector, might need cable					
PT	27	N2	Nitrogen transfer line pressure	0-100 psig	Setra		0-5 DC							
PT	30	V	Pbar filter dewar insulating vacuum	10^{-4} -1Torr linear & 10^{-4} -1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	31	V	High Vacuum at pump inlet	10^{-11} Torr to 10^{-3} Torr	Varian (Controller Part# L8350301)	UHV Bayard-Alptre gauge board (Part# L8321301)	0-10 VDC, 1 V per decade log-linear		Needs coaxial cable with microjax plug					
PT	32	V	Pbar storage dewar Argon volume high vacuum	10^{-11} Torr to 10^{-3} Torr	Varian (Controller Part# L8350301)	UHV Bayard-Alptre gauge board (Part# L8321301)	0-10 VDC, 1 V per decade log-linear		Needs coaxial cable with microjax plug					
PT	33	V	MVE detector dewar Argon volume high vacuum	10^{-11} Torr to 10^{-3} Torr	Varian (Controller Part# L8350301)	UHV Bayard-Alptre gauge board (Part# L8321301)	0-10 VDC, 1 V per decade log-linear		Needs coaxial cable with microjax plug					
PT	51	N	LN2 dewar pressure transmitter	0-100 psig	Setra		0-5 DC							
PT	53	V	Rough pump inlet pressure	10^{-4} -1Torr linear & 10^{-4} -1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	58	Ar	AE-36-Ar inlet pressure	0-50 psia	Setra	2231-050P-A-BA-11-B1-F	4-20 mA							
PT	59	Ar	AE-37-Ar inlet pressure	0-50 psia	Setra	2231-050P-A-BA-11-B1-F	4-20 mA							
PT	60	Ar	Zero gas line pressure after filter	0-50 psia	Setra	2231-050P-A-BA-11-B1-F	4-20 mA							
PT	61	Ar	Argon purge / analyzer purifying line pressure	0-50 psia	Setra	2231-050P-A-BA-11-B1-F	4-20 mA							
PT	62	V	AE-37-Ar gas switching manifold vacuum	10^{-4} -1Torr linear & 10^{-4} -1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	63	V	AE-36-Ar gas switching manifold vacuum	10^{-4} -1Torr linear & 10^{-4} -1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	64	Ar	Argon purge / analyzer purifying gas bottle pressure	0-3000 psia	Setra	2231-30CP-A-BA-11-Ba-F	4-20 mA							
PT	65	Ar	Argon purge / analyzer purifying dewar pressure	0-500 psia	Setra	2231-30CP-A-BA-11-Ba-F	4-20 mA							
PT	66	Ar	Argon span gas bottle pressure	0-3000 psia	Setra	2231-30CP-A-BA-11-Ba-F	4-20 mA							
PT	68	V	Luke dewar insulating vacuum	10^{-4} - 1Torr linear & 10^{-4} - 1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	69	V	Luke seal monitoring	10^{-4} - 1Torr linear & 10^{-4} - 1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	70	V	Seal pump inlet vacuum	10^{-4} -1Torr linear & 10^{-4} -1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	71	V	Seal monitor vacuum	10^{-4} -1Torr linear & 10^{-4} -1000 Torr non-linear	Granville-Phillips	275857-EU	0-10 VDC							
PT	399	N2	Nitrogen gas bottle pressure for pneumatic valves	0-3000 psia	Setra	2231-30CP-A-BA-11-Ba-F	4-20 mA							
TE	6	N2	LN2 transfer line cooldown temperature	70-400K	Omega	Platinum RTD (PR-19-2-100-1/8-E)	100 ohm							
TE	7	Ar	Purifier internal temperature		Minco	100 ohm platinum RTD (Part # S201PD)	100 ohm							
TE	23	Ar	HTR-21-Ar internal temperature (read out)		Watlow	Type K thermocouple								
TE	24	Ar	HTR-21-Ar internal temperature (interlock)		Watlow	Type K thermocouple								
TE	25	Ar	HTR-22-Ar internal temperature (read out)		Watlow	Type K thermocouple								
TE	26	Ar	HTR-22-Ar internal temperature (interlock)		Watlow	Type K thermocouple								
TE	54	Ar	Purifier internal temperature (read out)		Minco	100 ohm platinum RTD (Part # S201PD)								
TE	56	Ar	Regeneration pre-heater temperature (read out)		Minco	100 ohm platinum RTD (Part # S201PD)								
TE														

